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Amdt date April 11, 2006
Reply to Office action of January 12, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Previously Presented)   A computer-implemented method for processing an incoming document, comprising:

providing, under control of the computer, at least one personality document, the personality document defining a plurality of business operations and a behavior document associated with each business operation, each behavior document defining a plurality of actions for conducting the associated business operation;

accepting, under control of the computer, the incoming document;

generating, under control of the computer, a tree-based representation of the incoming document;

reading, under control of the computer, the personality document and testing the tree-based representation of the incoming document based on the personality document for recognizing the incoming document;

selecting a behavior document based on the recognized incoming document;

routing, under control of the computer, the incoming document to the selected behavior document; and

under control of the computer, applying the plurality of actions defined in the selected behavior document to the incoming document and conducting the business operation associated with the selected behavior document.

2.   (Original)   The method of Claim 1 wherein:
      the personality document is a XML document; and
      the selected behavior document is a XML document.

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3.   (Previously Presented)   The method of Claim 1, wherein the actions include translating the incoming document to a working document.

4.   (Previously Presented)   The method of Claim 3, wherein the actions further include:

> translating the working document to an outgoing document; and
>
> transmitting the outgoing document via a communication network.

Claims 5-6   (Canceled)

7.   (Previously Presented)   A computer-implemented method for processing an incoming document received from a client via a communication network, comprising:

> providing, under control of the computer at least one personality document, the personality document defining a plurality of business operations and a behavior document associated with each business operation, each, behavior document defining a plurality of actions for conducting the associated business operation;
>
> receiving the incoming document from the client via the communication network;
>
> generating, under control of the computer, a tree-based representation of the incoming document;
>
> reading, under control of the computer, the personality document and testing the tree-based representation of the incoming document based on the personality document for recognizing the incoming document;
>
> selecting a translation document based on the recognized incoming document;
>
> translating the incoming document into a working document having a standard document format based on the selected translation document;
>
> selecting a behavior based on the recognized incoming document;
>
> routing, under control of the computer, the working document to the selected behavior document; and

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under control of the computer, applying the plurality of actions in the selected behavior document to the working document and conducting the business operation associated with the selected behavior document.

8.   (Previously Presented)   The method of Claim 7, wherein the actions include transmitting the working document via the communication network.

9.   (Previously Presented)   The method of Claim 7, wherein the actions include:

translating the working document to an outgoing document; and

transmitting the outgoing document via the communication network.

Claims 10-11 (Canceled)

12.   (Previously Presented)   The method of Claim 7, wherein the actions include invoking a document parser.

13.   (Previously Presented)   The method of Claim 7 wherein:

the personality document is a XML document; and

the selected behavior document is a XML document.

14.   (Original)   The method of Claim 7 wherein:

the incoming document is a XML document;

the working document is a XML document; and

the selected translation document is a XSLT document.

Claims 15-17 (Canceled)

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18.   (Previously Presented)   A data processing system adapted to process an incoming document, comprising:

a data store storing at least one personality document, the personality document defining a plurality of business operations and a behavior document associated with each business operation, each behavior document defining plurality of actions for conducting the associated business operation;

a processor; and

a memory operably coupled to the processor and having program instructions stored therein, the processor being operable to execute the program instructions, the program instructions including:

accepting the incoming document;

generating a tree-based representation of the incoming document;

reading the personality document and testing the tree-based representation of the incoming document based on the personality document for recognizing the incoming document;

selecting a behavior document based on the recognized incoming document;

routing the incoming document to the selected behavior document; and

applying the plurality of actions defined in the selected behavior document to the incoming document and conducting the business operations associated with the selected behavior document.

19.   (Original)   The data processing system of Claim 18 wherein:

the personality document is a XML document; and

the selected behavior document is a XML document.

Claims 20-23 (Canceled)

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24.   (Previously Presented)   A data processing system adapted to process an incoming document sent from a client via a communication network, comprising:

a data store storing at least one personality document, the personality document defining a plurality of business operations and a behavior document associated with each business operation, each behavior document defining plurality of actions for conducting the associated business operation;

a processor; and

a memory operably coupled to the processor and having program instructions stored therein, the processor being operable to execute the program instructions, the program instructions including:

receiving the incoming document sent by the client via the communication network;

generating a tree-based representation of the incoming document;

reading the personality and testing the tree-based representation of the incoming document based on the personality document for recognizing the incoming document;

selecting a translation document based on the recognized incoming document;

translating the incoming document into a working document having a standard document format based on the selected translation document;

selecting a behavior document based on the recognized incoming document;

routing the working document to the selected behavior document; and

applying the plurality of actions defined in the selected behavior document to the incoming document and conducting the business operation associated with the selected behavior document.

25.   (Previously Presented)   The data processing system of Claim 24, wherein the actions include transmitting the working document via the communication network.

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26.   (Previously Presented)   The data processing system of Claim 24, wherein the actions include:

translating the working document to an outgoing document; and

transmitting the outgoing document via the communication network.

Claims 27-28 (Canceled)

29.   (Previously Presented)   The data processing system of Claim 24, wherein the actions include invoking a document parser.

30.   (Previously Presented)   The data processing system of Claim 24 wherein:

the personality document is a XML document; and

the selected behavior document is a XML document.

31.   (Original)   The data processing system of Claim 24 wherein:

the incoming document is a XML document;

the working document is a XML document; and

the selected translation document is a XSLT document.

Claims 32-34 (Canceled)

35.   (Previously Presented)   In a data processing system including a data store storing at least one personality document, the personality document defining a plurality of business operations and a behavior document associated with each business operation, each behavior document defining a plurality of actions for conducting the associated business operation, a computer program product embodying computer program instructions for execution by a computer, the computer program instructions comprising:

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accepting an incoming document;

generating a tree-based representation of the incoming document;

reading the personality document and testing the tree-based representation of the incoming document-based on the personality document for recognizing the incoming document;

selecting a behavior document based on the recognized incoming document;

routing the incoming document to the selected behavior document; and

applying the plurality of actions defined in the selected behavior document to the incoming document and conducting the business operation associated with the selected behavior document.

36.   (Original)   The computer program product of Claim 35 wherein:

the personality document is a XML document; and

the selected behavior document is a XML document.

37.   (Previously Presented)   The computer program product of Claim 35, wherein the actions include translating the incoming document to a working document.

38.   (Previously Presented)   The computer program product of Claim 35, wherein the actions include:

translating the working document to an outgoing document; and

transmitting the outgoing document via a communication network.

Claims 39-40 (Canceled)

41.   (Previously Presented)   In a data processing system including a data store storing at least one personality document, the personality document defining a plurality of business operations and a behavior document associated with each business operation, each behavior document defining a plurality of actions for conducting the associated business

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operation, a computer program product embodying computer program instructions for execution by a computer, the computer program instructions comprising:

receiving an incoming document sent by the client via the communication network;

generating a tree-based representation of the incoming document;

reading the personality document and testing the tree-based representation of the incoming document based on the personality document for recognizing the incoming document;

selecting a translation document based on the recognized incoming document;

translating the incoming document into a working document having a standard document format based on the selected translation document;

selecting a behavior document based on the recognized incoming document;

routing the working document to the selected behavior document; and

applying the plurality of actions defined in the selected behavior document to the incoming document and conducting the business operation associated with the selected behavior document.

42.   (Previously Presented)   The computer program product of Claim 41, wherein the actions include transmitting the working document via the communication network.

43.   (Previously Presented)   The computer program product of Claim 41, wherein the actions include:

translating the working document to an outgoing document; and

transmitting the outgoing document via the communication network.

Claims 44-45 (Canceled)

46.   (Previously Presented)   The computer program product of Claim 41, wherein the actions include invoking a document parser.

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47.   (Previously Presented)   The computer program product of Claim 41 wherein:

the personality document is a XML document; and

the selected behavior document is a XML document.

48.   (Original)   The computer program product of Claim 41 wherein:

the incoming document is a XML document;

the working document is a XML document; and

the selected translation document is a XSLT document.

49.   (Previously Presented)   The method of claim 1, wherein the personality document includes an XML path invoked for testing the tree-based representation of the incoming document.

Claims 50-51 (Canceled)

52.   (Previously Presented)   The method of claim 1 further comprising converting legacy data into an XML document and providing the XML document as the incoming document.

53.   (Previously Presented)   The method of claim 52, wherein the tree-based representation is a machine-readable document object model of the XML document.

54.   (Previously Presented)   The method of claim 7 further comprising converting legacy data into an XML document and providing the XML document as the incoming document.

55.   (Previously Presented)   The method of claim 54, wherein the tree-based representation is a machine-readable document object model of the XML document.

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56.　　(New) The method of claim 1, wherein the personality document further includes criteria information, and the testing includes testing the tree-based representation of the incoming document for a match based on the criteria information.

57.　　(New) The method of claim 1, wherein the actions include translating the incoming document having a first XML representation into a document having a second XML representation.

58.　　(New) The method of claim 7, wherein the personality document further includes criteria information, and the testing includes testing the tree-based representation of the incoming document for a match based on the criteria information.

59.　　(New) The method of claim 7, wherein the incoming document is an XML document having a first XML representation, and the working document is an XML document having a second XML representation.

60.　　(New) The data processing system of claim 18, wherein the personality document further includes criteria information, and the testing includes testing the tree-based representation of the incoming document for a match based on the criteria information.

61.　　(New) The data processing system of claim 18, wherein the actions include translating the incoming document having a first XML representation into a document having a second XML representation.

62.　　(New) The data processing system of claim 24, wherein the personality document further includes criteria information, and the testing includes testing the tree-based representation of the incoming document for a match based on the criteria information.

63.　　(New) The data processing system of claim 24, wherein the incoming document is an XML document having a first XML representation, and the working document is an XML document having a second XML representation.

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64.   (New) The computer program product of claim 35, wherein the personality document further includes criteria information, and the computer program instructions for testing include computer program instructions for testing the tree-based representation of the incoming document for a match based on the criteria information.

65.   (New) The computer program product of claim 35, wherein the actions include translating the incoming document having a first XML representation into a document having a second XML representation.

66.   (New) The computer program product of claim 41, wherein the personality document further includes criteria information, and the computer program instructions for testing include computer program instructions for testing the tree-based representation of the incoming document for a match based on the criteria information.

67.   (New) The computer program product of claim 41, wherein the incoming document is an XML document having a first XML representation, and the working document is an XML document having a second XML representation.

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